

Claims

1. A refrigeration system including: a refrigerant circuit (10) in which a compressor (21), a heat source side heat exchanger (24), an expansion mechanism (32) and a heat use side heat exchanger (33) are connected via refrigerant pipes to operate on a vapor compression refrigeration cycle; and an oil recovery container (40) connected to the suction side of the compressor (21), the refrigeration system carrying out a recovery operation for circulating refrigerant through the refrigerant circuit (10) via the recovery container (40) to recover oil into the recovery container (40), wherein

10 the refrigeration system further comprises:

 a compressor control section (50) for stepwise increasing the operating capacity of the compressor (21) up to a predetermined capacity in an initial stage of the recovery operation so that the refrigerant temperature in the low pressure side of the refrigerant circuit (10) reaches or exceeds a predetermined value; and

15 a fan control section (70) for continuously driving a heat use side fan (33a) for the heat use side heat exchanger (33) in the recovery operation at least during driving of the compressor (21).

2. The refrigeration system of claim 1, wherein

20 the expansion mechanism (32) comprises an expansion valve (32), and

 the refrigeration system further comprises a valve control section (60) for stepwise increasing the opening of the expansion valve (32) up to a predetermined opening according to stepwise increase in the operating capacity of the compressor (21) in the initial stage of the recovery operation.

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3. The refrigeration system of claim 1 or 2, wherein the fan control section (70) drives the heat use side fan (33a) with a maximum airflow.